AVAL PLASTIC VALVES

PLASTIC BALL VALVE
HIDROTEN 3 WAY BALL VALVES

TYPE
52080

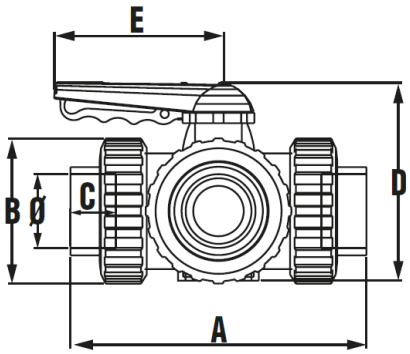
Features

- PVC 3 Way Ball Valves
- Size range is 1" to 3" bidirectional
- PTFE ball seats
- EPDM or Viton seals available
- Available plain solvent weld end, BSP, NPT or Flanged
- Can be actuated with electric or pneumatic actuator
- Maximum pressure 16 Bar rated up to 2", 10 bar above
- Can be actuated using spare part, drive adapter.

EPDM VITON

Operation

3 way ball valves can be used with an L port or T port ball to allow either a mixing or diverting flow path. See page 3 in this document for different flow paths available.



MANUFACTURER: hidroten

Materials

Body	PVC-U
Ball	PVC-U
Seats	PTFE
Stem / Seals	EPDM or Viton
Lever	Supplied with valve to tighten ball in body

Dimension Table

Size	DN	A	B	C	D	Torque	ISO	Weight
D32	25	160	72	22	121	5Nm	F05	0.70Kg
D40	40	214	103	26	155	10Nm	F05	1.65Kg
D50	40	216	103	31	155	12Nm	F05	1.65Kg
D63	50	251	120	38	172	15Nm	F05	2.55Kg
D75	65	308	150	45	218	30Nm	F05	4.85Kg
D90	65	332	150	51	218	45Nm	F05	5.90Kg

* For dry applications add 1.5 to the above torque figure as good practice, for wet/lubricating applications, use the above torque figures.

Drive Adapter for Actuation

52112	DN25 Aluminium Drive Adapter x 14mm
52113	DN32/40 Aluminium Drive Adapter x 11mm
52114	DN50 Aluminium Drive Adapter x 14mm
52116	DN65/80 Aluminium Drive Adapter x 17mm
*For 22mm output drives and above, use square reducers.	

SCAN ME

* Scan the QR code to view our range of 3 way PVC ball valves online

AVOL PLASTIC VALVES

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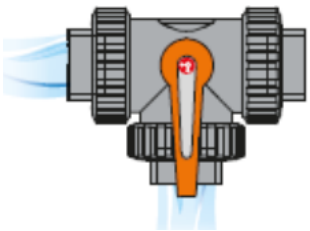
TYPE
52080

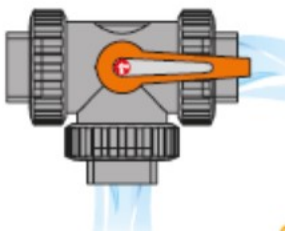
Part Numbers:

This range of Hidroten PVC ball valves are available with a variety of ends and seals. The following table lists the different part numbers covering the different ends, metric and imperial with BSP threaded ends also covered.

Series	52020 - PVC Ball valve lever operated Metric plain solvent weld ends EPDM seals L port						EPDM
Codes:	52020-D06	52020-D07	52020-D08	52020-D09	52020-D10	52020-D11	See series 52080 for valve with drive adapter ready for actuation.
Size:	DN25	DN40	DN40	DN50	DN65	DN80	
Series	52021 - PVC Ball valve lever operated Metric plain solvent weld ends Viton seals L port						VITON
Codes:	52021-D06	52021-D07	52021-D08	52021-D09	52021-D10	52021-D11	See series 5201 for valve with drive adapter ready for actuation.
Size:	DN25	DN40	DN40	DN50	DN65	DN80	
Series	52010 - PVC Ball valve pre motor Imperial BS plain solvent weld ends EPDM seals L port						EPDM
Codes:	52010-06	52010-07	52010-08	52010-09	52010-10	52010-11	See series 52070 for valve with drive adapter ready for actuation.
Size:	1"	11/4"	11/2"	2"	21/2"	3"	
Series	52011 - PVC Ball valve lever operated Imperial BS plain solvent weld ends Viton seals L port						VITON
Codes:	52011-D06	52011-D07	52011-D08	52011-D09	52011-D10	52011-D11	See series 52071 for valve with drive adapter ready for actuation.
Size:	1"	11/4"	11/2"	2"	21/2"	3"	
Series	52030 - PVC Ball valve lever operated Imperial BS plain BSP threaded ends Viton seals L port						EPDM
Codes:	52030-06	52030-07	52030-08	52030-09	52030-10	52030-11	See series 52075 for valve with drive adapter ready for actuation.
Size:	1"	11/4"	11/2"	2"	21/2"	3"	
Series	52031 - PVC Ball valve lever operated Imperial BS plain BSP threaded ends Viton seals L port						VITON
Codes:	52031-06	52031-07	52031-08	52031-09	52031-10	52031-11	See series 52076 for valve with drive adapter ready for actuation.
Size:	1"	11/4"	11/2"	2"	21/2"	3"	

L Port Flow Paths:





With an L port ball valve the main purpose of the valve is to allow the flow to be diverted from the centre port to the left or right hand side port. Should you require the flow at any point to flow straight through the valve right to left, you would require a T port valve. See the next page for the different flow paths available

Some of the standard features with the Hidroten 3 way valves include PTFE ball seats, flow indicator within the top of the valve stem and a lever operator as standard which is also used to tighten or loosen the ball retainer.

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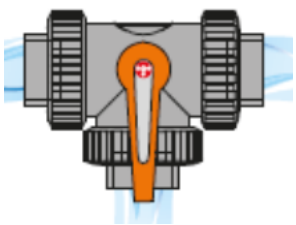
Part Numbers:

This range of Hidroten PVC ball valves are available with a variety of ends and seals. The following table lists the different part numbers covering the different ends, metric and imperial with BSP threaded ends also covered.

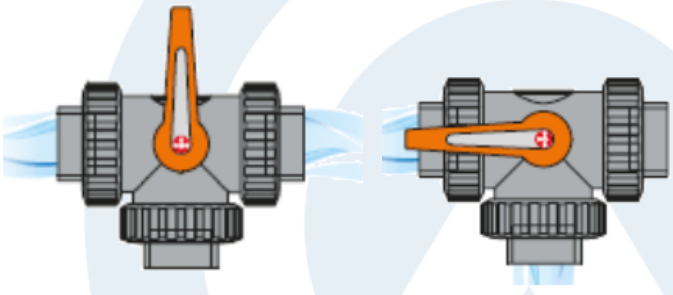
Series	52022 - PVC Ball valve lever operated Metric plain solvent weld ends EPDM seals T port						EPDM
Codes:	52022-D06	52022-D07	52022-D08	52022-D09	52022-D10	52022-D11	See series 52082 for valve with drive adapter ready for actuation.
Size:	DN25	DN40	DN40	DN50	DN65	DN80	
Series	52023 - PVC Ball valve lever operated Metric plain solvent weld ends Viton seals T port						VITON
Codes:	52023-D06	52023-D07	52023-D08	52023-D09	52023-D10	52023-D11	See series 52083 for valve with drive adapter ready for actuation.
Size:	DN25	DN40	DN40	DN50	DN65	DN80	
Series	52012 - PVC Ball valve lever operated Imperial plain solvent weld ends EPDM seals T port						EPDM
Codes:	52012-06	52012-07	52012-08	52012-09	52012-10	52012-11	See series 52072 for valve with drive adapter ready for actuation.
Size:	1"	11/4"	11/2"	2"	21/2"	3"	
Series	52013 - PVC Ball valve lever operated Imperial solvent weld ends Viton seals T port						VITON
Codes:	52013-06	52013-07	52013-08	52013-09	52013-10	52013-11	See series 52073 for valve with drive adapter ready for actuation.
Size:	1"	11/4"	11/2"	2"	21/2"	3"	
Series	52032 - PVC Ball valve lever operated Imperial BS plain BSP threaded ends EPDM seals T port						EPDM
Codes:	52032-06	52032-07	52032-08	52032-09	52032-10	52032-11	See series 52077 for valve with drive adapter ready for actuation.
Size:	1"	11/4"	11/2"	2"	21/2"	3"	
Series	52033 - PVC Ball valve lever operated Imperial BS plain BSP threaded ends Viton seals T port						VITON
Codes:	52033-06	52033-07	52033-08	52033-09	52033-10	52033-11	See series 52078 for valve with drive adapter ready for actuation.
Size:	1"	11/4"	11/2"	2"	21/2"	3"	

T Port Flow Paths:

T port flow paths allow a diverting flow path which would allow flow through the valve left to right with the centre port closed and then divert on a 90 degree turn or a mixing flow path that allows all ports to be open and then divert the flow. All as shown in these useful flow path diagrams.



T Port Mixing Flow Configuration



T Port Diverting Flow Configuration